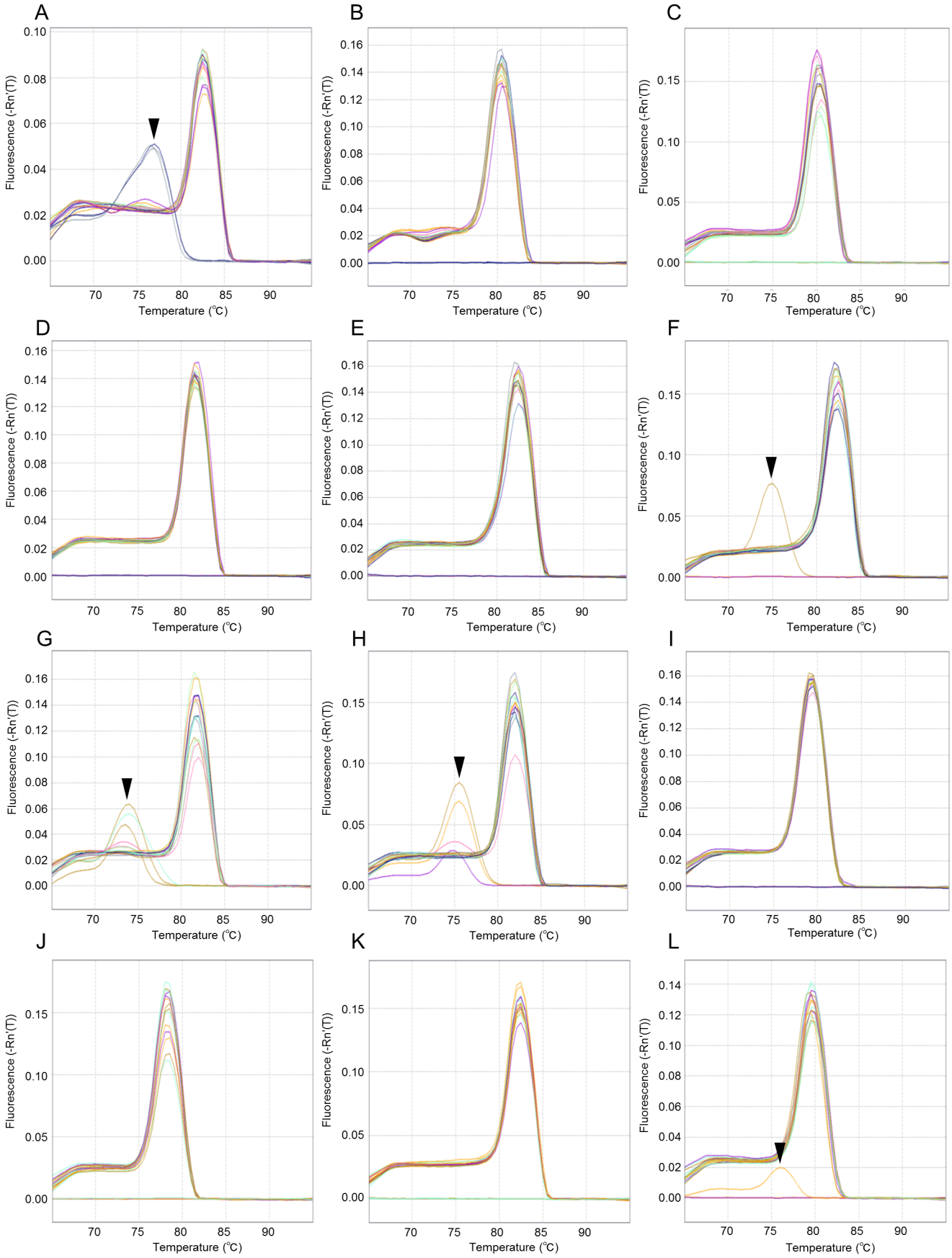
Supplemental Figure 1. Melting curves of analyzed genes, *ACT* (A), *CAC* (B), *EXPRESSED* (C), *GAPDH* (D), *PP2a* (E), *RPL8* (F), *SAND* (G), *TIP41* (H), *FUL1* (I), *AP2c* (J), *SlYABBY1a* (K), and *SlYABBY2a* (L). All qRT-PCR reaction resulted in a unique single peak. Arrowheads indicate a peak from no template controls.

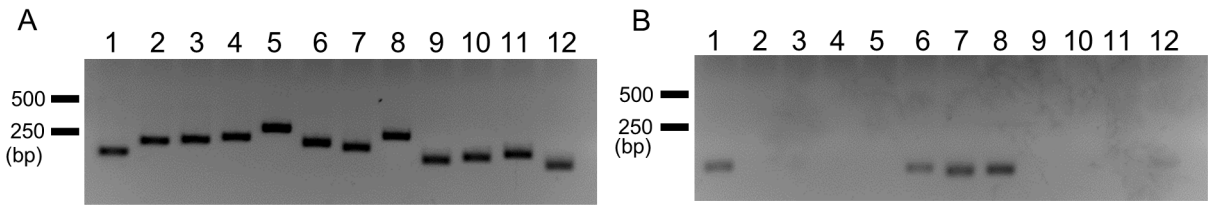
Supplemental Figure 2. Gel electrophoresis of qRT-PCR products with 2 % agarose gel. (A) Amplicons obtained from qRT-PCR with cDNA templates. (B) Amplicons of no template controls. Each lane indicate the followings: primer pairs target to *ACT* (1), *CAC* (2), *EXPRESSED* (3), *GAPDH* (4), *PP2a* (5), *RPL8* (6), *SAND* (7), *TIP41* (8), *FUL1* (9), *AP2c* (10), *SlYABBY1a* (11), and *SlYABBY2a* (12).

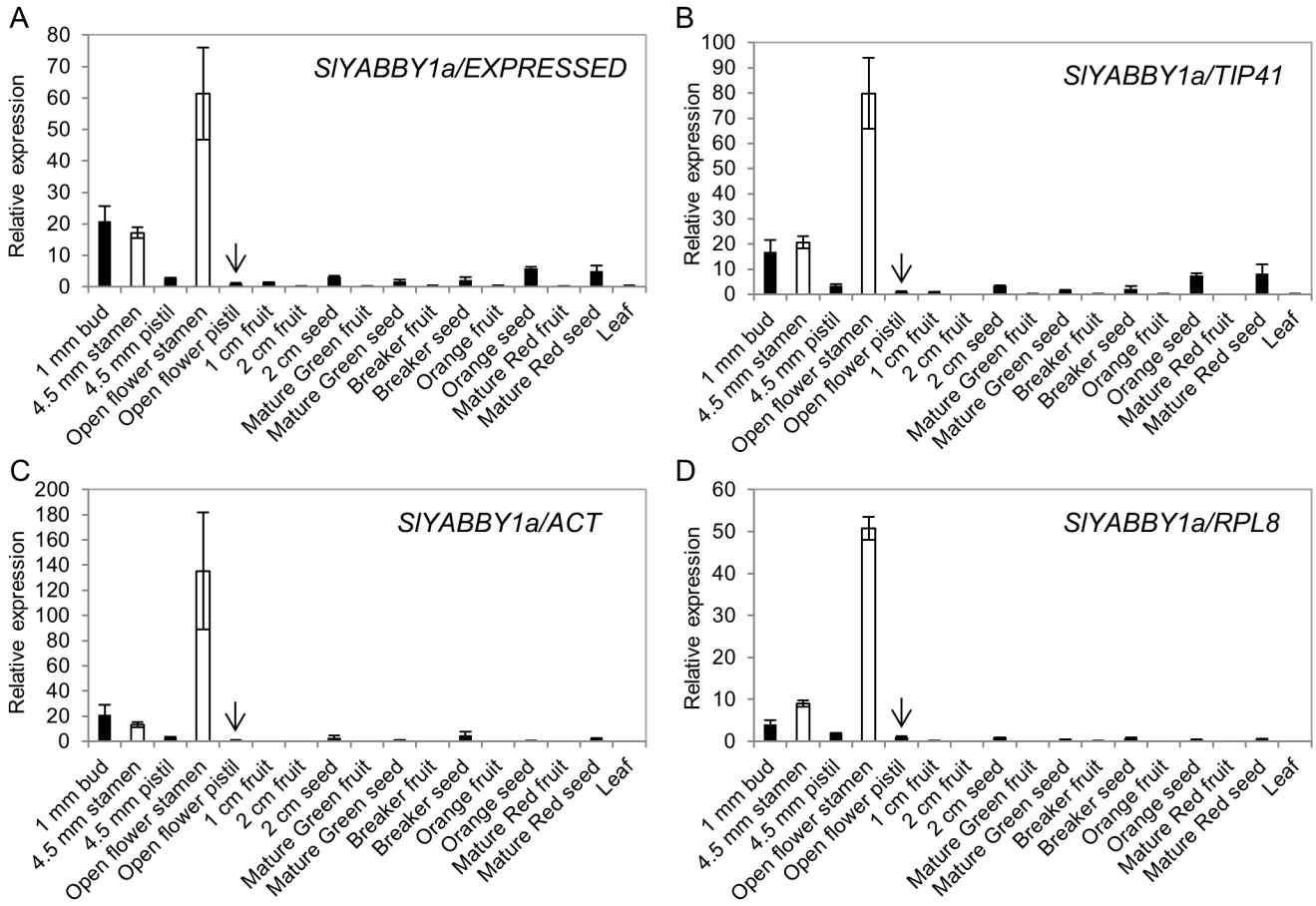
Supplemental Figure 3. Expression profile of *SlYABBY1a* normalized with two stable genes (*EXPRESSED*; A, *TIP41*; B) and two unstable genes (*ACT*; C and *RPL8*; D). The relative expression levels at "open flower pistil" (arrows) were adjusted to 1. White bars indicate the expressions in stamens. Error bars represent the standard error of the mean.

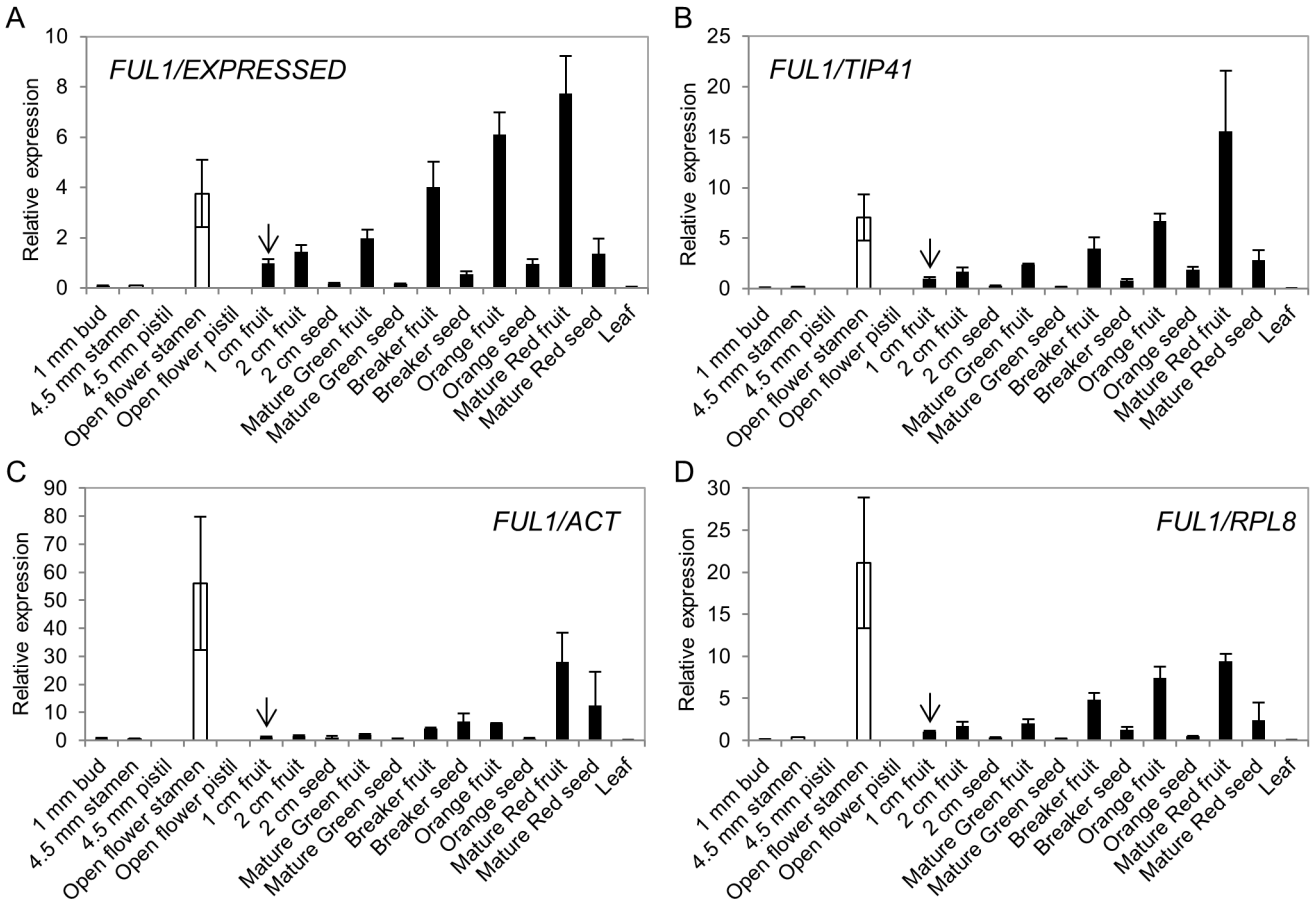
Supplemental Figure 4. Expression profiles of *FUL1* normalized with two stable genes (*EXPRESSED*; A, *TIP41*; B) and two unstable genes (*ACT*; C and *RPL8*; D). For relative representation, the expression levels at "1 cm fruit" stages (arrows) were adjusted to 1. White bars indicate the expressions in stamens. Error bars represent the standard error of the mean.

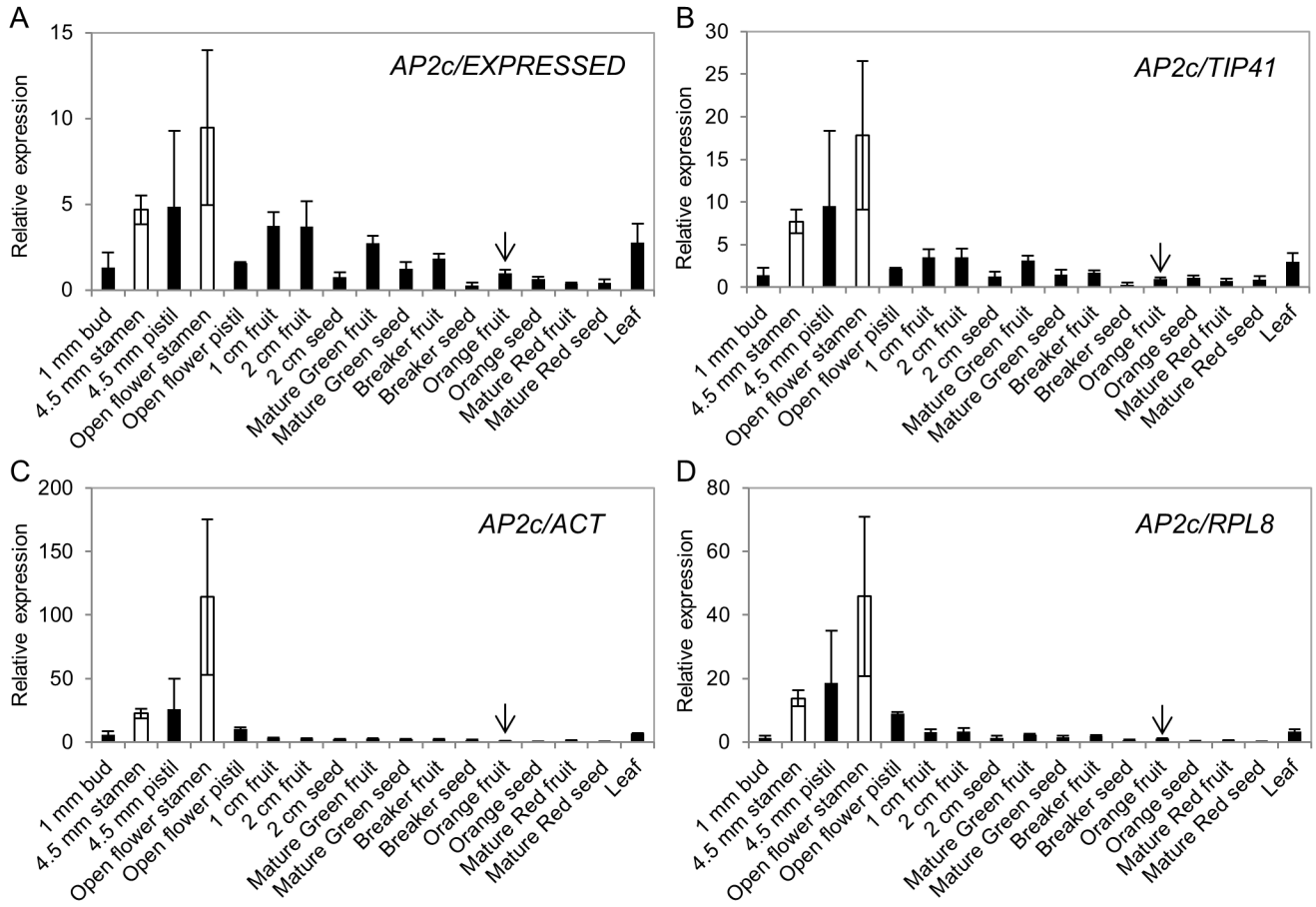
Supplemental figure 5. Expression profiles of *AP2c* normalized with two stable genes (*EXPRESSED*; A, *TIP41*; B) and two unstable genes (*ACT*; C and *RPL8*; D). For relative representation, the expression levels at "orange fruit" stages (arrows) were adjusted to 1. White bars indicate the expressions in stamens. Error bars represent the standard error of the mean.


A
B
C
D
E
F
G
H
I
J
K
L
Fluorescence (-Rn'(T))
Temperature (℃)
70
75
80
85
90


A
1 2 3 4 5 6 7 8 9 10 11 12
500
250
(bp)
B
1 2 3 4 5 6 7 8 9 10 11 12
500
250
(bp)


A
SlYABBY1a/EXPRESSED
Relative expression
0
10
20
30
40
50
60
70
80
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf
B
SlYABBY1a/TIP41
Relative expression
0
10
20
30
40
50
60
70
80
90
100
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf
C
SlYABBY1a/ACT
Relative expression
0
20
40
60
80
100
120
140
160
180
200
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf
D
SlYABBY1a/RPL8
Relative expression
0
10
20
30
40
50
60
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf


A
FUL1/EXPRESSED
Relative expression
0
2
4
6
8
10
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf
B
FUL1/TIP41
Relative expression
0
5
10
15
20
25
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf
C
FUL1/ACT
Relative expression
0
10
20
30
40
50
60
70
80
90
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf
D
FUL1/RPL8
Relative expression
0
5
10
15
20
25
30
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf


A
AP2c/EXPRESSED
Relative expression
15
10
5
0
B
AP2c/TIP41
Relative expression
30
25
20
15
10
5
0
C
AP2c/ACT
Relative expression
200
150
100
50
0
D
AP2c/RPL8
Relative expression
80
60
40
20
0
1 mm bud
4.5 mm stamen
4.5 mm pistil
Open flower stamen
Open flower pistil
1 cm fruit
2 cm fruit
2 cm seed
Mature Green fruit
Mature Green seed
Breaker fruit
Breaker seed
Orange fruit
Orange seed
Mature Red fruit
Mature Red seed
Leaf